


**BI-DIRECTIONAL COMMUNICATION SYSTEM**

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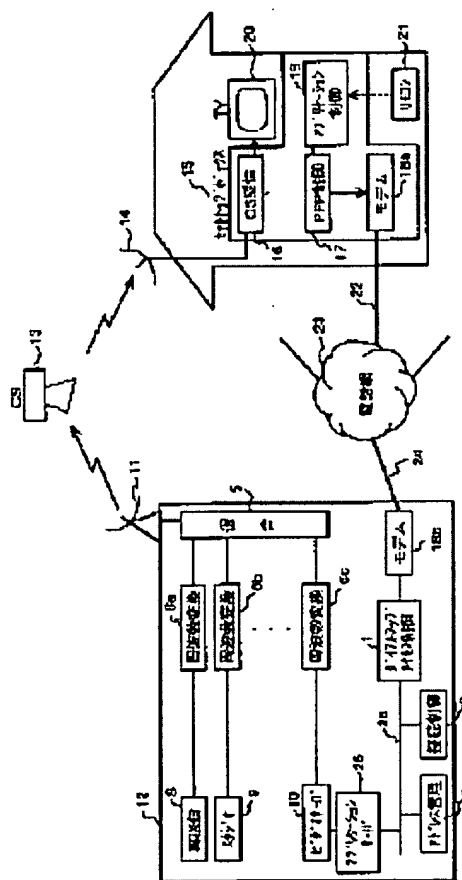
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**Abstract of JP10042271**

**PROBLEM TO BE SOLVED:** To cut a dial up line when it is not needed and to securely connect it if needed by permitting a first communication station to allocate a network layer protocol identifier to a second communication station, to hold it and to connect and cut the line in accordance with the presence or absence of communication data. **SOLUTION:** The first communication station (broadcasting station) 12 executes information delivery service through a satellite 13. More than one second communication stations (home) executes data communication to the first communication station through the dial up line. The first communication station allocates the specified network layer protocol identifier (IP address) to the second communication station connected to the dial up line and transmits a line connection control signal inhibiting the use of the allocated IP address. During information delivery service, the connection controller 2 of the first communication station and the set top box STB 15 of the second communication station continues holding the IP address. Thus, dial line connection is cut, a line use rate is saved and it can securely be connected again when data does not exist for prescribed time during service.



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